



## PATENT ABSTRACTS OF JAPAN

(11) Publication number: 2001029356 A

(43) Date of publication of application: **06.02.2001**

(51) Int. Cl. **A61B 18/12**

(21) Application number:	2000174973
(22) Date of filing:	12.06.2000
(30) Priority:	11.06.1999 GB 99 9913652

(71) Applicant: **GYRUS MEDICAL LTD**  
(72) Inventor: **HANCOCK CHRISTOPHER PAUL**  
**PENNY KEITH**  
**AMOAH FRANCIS**  
**GOBLE COLIN CHARLES OWEN**

**(54) ELECTRIC AND SURGICAL SIGNAL GENERATOR**

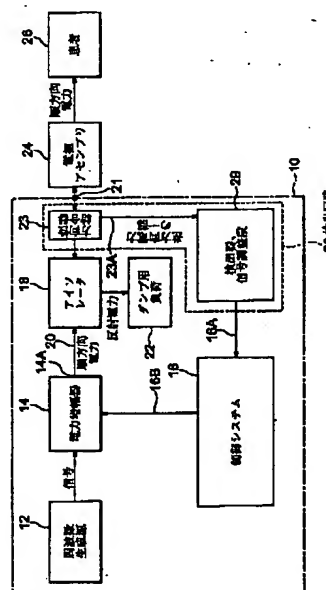
(57) Abstract:

**PROBLEM TO BE SOLVED:** To attain safe usage by reducing or stopping radio frequency power to be added on a generator output from a power source in accordance with the prescribed condition of the signal of a monitor which indicates the change of reflection power caused by means of the change of a tissue state under a medical treatment.

**SOLUTION:** The generator 10 is provided with a radio frequency source having a frequency generating source 12 and a power amplifier 14 and an oscillation frequency in the generation source 12 is controlled by a control system 16. Power for electric surgery is supplied to an electrode assembly 24 having a medical electrode by a UHF band with an impedance isolator 18 such as a circulator in accordance with the output of the amplifier 14, an opposite direction power output 23A is derived from a directional coupler 23 and the output 23A is inputted to a detection and signal adjusting stage 29. Then the point of time when change occurs in tissue is decided so that the power output

of the generator is reduced or stopped by the control system 16 by the decision result.

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